22 41 00  RESIDENTIAL PLUMBING FIXTURES

Plumbing Fixtures – Private

1. “Private” plumbing fixtures are those that are located in washrooms that serve only a single residential suite (e.g. cluster housing, family housing, and don suite in a residence building). Common washrooms for a group of student residence rooms are considered “Public”.

2. Water Closets:
   i. Tank type: Floor mounted.
   ii. Capacity: 6 lpf maximum, processing minimum 500g of solids.
   iii. Colour: White
   iv. Seat: Closed front; white.
   v. Trims: Stainless steel.

3. Lavatories:
   i. Vitreous china; manufacturers: American Standard, Crane, Toto.
   iii. Showers:

4. Showers:
   i. Field constructed (tile).
   ii. Solid surface (acrylic).
   iii. All accessible showers and all showers in lockable rooms shall be grouted under the base to prevent deflection. Grout by General Contractor.
   iv. Accessible shower trim shall be compliant with CSA B651.

Accessible Water Closet

1. Accessible water closets shall provide suitable back support for the user.
   i. Water closet with tank: provide bolted connection for lid to tank and ensure tank design is suitable to act as a support.
   ii. Water closet without tank: provide a toilet seat with adequately positioned wall support to provide support to the user.

Janitorial Plumbing Fixtures

1. Sinks: moulded stone, floor mounted type, 600mm x 900mm.

2. UVic will provide an automatic cleaning solution dispenser. Provide a separate 1/2” RPBA water connection with backflow prevention for chemical soap connection.

3. The faucet shall be reinforced and be complete with a pain hook. The mixing of hot and cold water shall be manual.


5. Standard of acceptance for the faucet is Delta 28T-2383.
Food Services


Laboratory Plumbing Fixtures

1. Most existing laboratories constructed or renovated before 2009 have Tech/Cambridge Brass trim with corrosion resistant finish. More recently (when that finish was no longer available) Tech/Cambridge Brass trim with chrome finish has been used or Water Saver. This trim includes water faucets, compressed air and gases outlets both inside fume hoods and wall or counter mounted except that chrome finish has not been used in fume hoods.

2. Where a renovation requires only a very few fixtures and there are others remaining, check with the Plumbing Shop to determine if they have in stock matching trim available to be used for the renovation. If not, evaluate the relative corrosion potential for the installation and select trim to match the existing with chrome finish unless the corrosion potential is high and in that case select Water Saver with suitable finish.

3. Trim for sinks are typically hot and cold gooseneck type with type handles, except for ADA trim which shall have blade handles, vacuum breaker and tapered, barbed nozzles except sometimes aerator type outlets for wash-up sinks. Many outlets had aspirators in the past but consideration shall be given to compressed air aspiration (check with Facilities Management). Some sinks require distilled/deionised water outlets. They are typically gooseneck type.

4. Laboratory sinks are typically 316 stainless steel with counter-top flange (although with suitable counter and where coordinated with the Architect, under-counter mount is acceptable), no ledge-back, cross strainer outlet. Standard of acceptance is Aristaline. Acceptable manufacturers are Architectural Metal Industries, Franke, and Steel Queen.

22 42 00 COMMERCIAL PLUMBING FIXTURES

Plumbing Fixtures – Public

1. All plumbing fixtures at UVic are considered “Public” except for those that are in individual residential suites (e.g. cluster housing, family housing, and don suite in a student residence) which are referred to as “Private”.

2. Water Closets:
   i. Wall Hung.
   ii. Acceptable manufacturers: American Standard, Crane, or Toto.
   iii. Seats: Bemis or equivalent.
   iv. Trims: Hands-free, stainless steel, by Delta Commercial, Sloan or Toto.
   v. Capacity: 6 lpf maximum, processing a minimum of 500g of solids in accordance with MaP standards as issued by Veritec Consulting Inc. and Koeller and Company.

3. Urinals:
   i. Acceptable manufacturers: American Standard, Crane, or Toto.
   ii. Capacity: 6 lpf maximum.
   iii. Waterless urinals are not acceptable.
   iv. Trims: Hands-free, stainless steel, by Delta Commercial, Sloan or Toto.

4. Lavatories:
i. Vitreous China.
ii. Acceptable manufacturers: American Standard, Crane, or Toto.
iii. Trims: Hands-free by Delta Commercial or Sloan.

5. Power for the hands free controls shall be building power (on standby power where provided for that building). Battery-powered units are not acceptable even where automatic recharging is included in the fixture.

6. Showers:
   i. Field constructed (tile).
   ii. Solid surface (acrylic).
   iii. All accessible showers and all showers in lockable rooms shall be grouted under the base to prevent deflection. Grout by General Contractor.
   iv. Accessible shower trim shall be compliant with CSA B651.

7. All fixtures shall be white and colour-matched (there is a variety of whites) where within a single room.

8. All washroom fixtures within the building shall be, where possible, of the same manufacturer.

9. Specify water conserving type of fixtures and trim.

10. Provide chrome plated, hot and cold hose outlet under the lavatory counter (preferably in the male washroom) for each group of public washrooms. Standard of acceptance: Delta 28T8183.

22 45 00 EMERGENCY PLUMBING FIXTURES

1. Water supply at all emergency eyewashes shall be tempered to 22°C +/- 2°C and shall flow at the specified rate (ANSI Z358.1) for a period of > 15 minutes, with temperatures not varying outside of a range between 15°C and 30°C.

2. Stainless steel pipe and fittings only shall be used in emergency eyewash and showers on the UVic campus.

3. Eyewash shall be specified as eyewash only not face and eyewash combination.

4. Emergency showers/eyewash stations:
   i. Shall have “stay open”, hand-controlled valves.
   ii. Shall each have a floor drain plumbed in, complete with trap primers for new construction. Existing construction is exempt.

5. Mixing valves shall be brass.

6. Temperature mixing valves:
   i. Serving individual, sink-mounted eyewashes shall be located under the sink to be accessible for service and with the temperature gauge readily visible.
   ii. Serving showers or multiple devices shall be mounted in a secure location to be accessible for service:
      a. Height 610mm (2') to 1520mm (5').
      b. Recessed flush into a wall.
      c. Enclosed in an 18 gauge, 304 stainless steel cabinet measuring 18" x 16/5" x 7".
      d. Fixed with a piano-type hinge.
      e. See Figure: 22 45 00 – 1 Temperature Mixing Valve Placement.
22 47 00  DRINKING FOUNTAINS AND WATER COOLERS

1. All buildings over 600 gross square metres shall have at least one accessible drinking water fountain, located in a public area. The drinking fountain should include an appropriate fixture for filling water bottles.

2. Drinking water fountains shall not be cooled.

3. Drinking water fountains shall not have filters (no backflow preventers will be required).

4. Drinking water fountains shall only be located inside buildings at level 1 entrance lobbies and should be visible from the exterior.